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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/787,186	09/787,186 03/15/2001		Martin Rudolf Behringer	12406-018001	6550	
26161	7590	08/22/2006		EXAMINER		
FISH & RI	CHARD	SON PC	CRANE, SARA W			
P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER	
MININDAM ODIO, MINI JOHNO 1022				2811		
				DATE MAILED: 08/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

8	

	Application No.	Applicant(s)				
Office Action Summan	09/787,186	BEHRINGER, MARTIN RUDOLF				
Office Action Summary	Examiner	Art Unit				
	Sara W. Crane	2811				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 07 Ju	ne 2006.					
	action is non-final.					
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the	merits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 5-19 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>5-19</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	ſ.					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite	450)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P.	atent Application (PTO	J-152)			

Application/Control Number: 09/787,186

Art Unit: 2811

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

Claims 5-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The specification does not teach how to obtain sub-monolayer islands separated from one another and located in a common plane perpendicular to a growth direction. Applicant notes on the first page of the remarks of 23 January 2006 that the islands emerge on their own, with deposition of fractional monolayer coverage of ZnTe on a closed layer of ZnSe. Applicant then states on the second page of the remarks that the deposition with fractional monolayer coverage in the Oiu invention of 12, column 13, lines 34-65, would not give rise to separate islands, even though the materials are the same as in Applicant's invention. The statements seem contradictory. If the islands emerge on their own in Applicant's invention, then they would emerge on their own in the Oiu layers as well. If the islands do not emerge on their own, simply with fractional layer deposition, then some teaching is necessary to explain how to obtain the separated islands.

Claim Rejections - 35 USC § 103

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 5-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oiu et al.

See reasons of record in the Office action of 19 July 2005.

As noted above, the fractional monolayer deposition as taught in the Oiu reference would appear to inherently give rise to the same structure as in Applicant's invention, if the layer materials are the same, because the same lattice mismatch relied upon by Applicant to form multiple islands as recited would be occurring in the Oiu layers as well, because the materials are the same.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane Primary Examiner Art Unit 2811